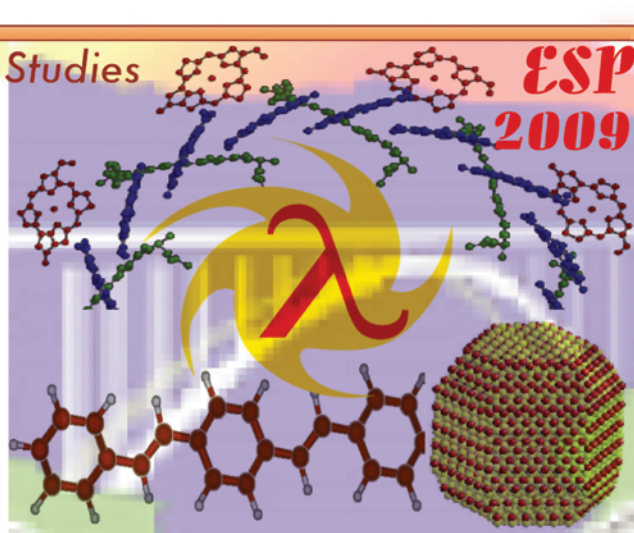


Excited State Processes in Electronic and Bio Nanomaterials

June 29 - July 2, 2009

Santa Fe, NM, USA



During the past 20 years, extraordinary experimental advances have made the manipulation and fabrication of structures at the nanoscale possible. Parallel developments of theoretical and simulation capabilities aim to achieve quantitative understanding and prediction of fundamental physical properties of these materials. This interdisciplinary workshop will provide an open forum for active interactions between researchers from different subfields.

The scope of the conference is a variety of excited state phenomena in technologically important materials and biosystems, including size-dependent and time-dependent electronic interactions, excited state dynamics, quantum confinement, and carrier transport, emphasizing similarity of the phenomena rather than specifics of the systems.

Topical areas:

- Organic polymers and nanotubes: ultrafast processes and functional devices;
- Organo-metallic complexes: excited state potentials and photocatalysis;
- Semiconductor nanocrystals: from novel structures to novel physical phenomena;
- Biosystems: conformations, energy/charge transport, spectroscopy and photosynthesis.

<http://cnls.lanl.gov/esp09>
conferences@cnls.lanl.gov

Organizing Committee:

Sergei Tretiak, Avadh Saxena, and Richard L. Martin

Scientific Advisors:

Alan R. Bishop, Andrew P. Shreve, and Victor I. Klimov

Invited Speakers: (confirmed)

Christopher Bardeen

UC, Riverside

Enrique Batista

Los Alamos National Lab

Lin X. Chen

Northwestern University, ANL

Enrico Da Como

University of Muenchen

Scott Crooker

Los Alamos National Lab

Susan Dexheimer

Washington State

Steven Doorn

Los Alamos National Lab

Mostafa El-Sayed

Georgia Tech

David Gershoni

Israel Institute of Technology

Johannes Guettinger

ETH Zürich

Philippe Guyot-Sionnest

University of Chicago

Patanjali Kambhampati

McGill University

Claudine Katan

University of Rennes, France

Anna Krylov

University of Southern California

Xiaosong Li

University of Washington

Biwu Ma

Lawrence Berkeley Lab

James McCusker

Michigan State University

John Marohn

Cornell University

Sumit Mazumdar

University of Arizona

Oliver Monti

University of Arizona

Vasili Perebeinos

IBM

Linda Peteanu

Carnegie-Melon University

Oleg Prezhdo

University of Washington

Ludmila Slipchenko

Purdue University

Anne Swan

Boston University

Valy Vardeny

University of Utah

Marcus Wohlgenannt

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Yang Yang

UC, Los Angeles

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